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Quality Engineering Test Report

Model : SRS-0505 0.5W DC-DC Single Output Converter
V1 : 5V / 0~100mA

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:5VDC O/P:50% LOAD Ta:25℃	-0.4%	P
2	RIPPLE & NOISE	100mVp-p (Max)	I/P:5VDC O/P:FULL LOAD Ta:25℃	10mV	P
3	LINE REGULATION	-1%~+1% (Max)	I/P:4.5VDC~5.5VDC O/P:FULL LOAD Ta:25℃	-0.2%~+0%	P
4	LOAD REGULATION	-1%~+1% (Max)	I/P:5VDC O/P:MIN~FULL LOAD Ta:25℃	-0%~+0.2%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE	4.5VDC~5.5VDC (Typ)	I/P:TESTING O/P:FULL LOAD Ta:25℃	3.9V~5.5V	P
2	EFFICIENCY	62% (Typ)	I/P:5VDC O/P:FULL LOAD Ta:25℃	63.6%	P
3	DC CURRENT	166mA (Max)	I/P:5VDC O/P:FULL LOAD Ta:25℃	157mA	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	YES	I/P:5VDC O/P:TESTING Ta:25℃	220% Hiccup Mode Reset Auto Recovery	P
2	SHORT PROTECTION	SHORT EVERY OUTPUT 1 HOUR NO DAMAGE	I/P:5VDC O/P:FULL LOAD Ta:25℃	NO DAMAGE Hiccup Mode Reset Auto Recovery	P

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ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN：4HRS I/P:5VDC O/P:FULL LOAD Ta=25℃			P

Position	P/N	TEMP Ta=25℃
CASE	SRS-0505	37.9℃

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	I/P-O/P:1KVDC/min	I/P-O/P:1KVDC/min Ta:25℃	I/P-O/P:0.02mA NO DAMAGE	P
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25℃	I/P-O/P:17GΩ NO DAMAGE	P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2003.7.17	SRS-0505	PASS	FRANK.CHEN	MAX LIN